BRUHATH BENGALURU MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION, BENGALURU

EMB

1st & Final Bill

Name of Work: - Improvements to roads and drains at Muneshwara Nagara, Near Doddamma devi temple, kattigenahalli village and Surrounding Area in Ward No.05

Estimated Cost:- 88.00 Lakhs

Job Code: - 005-20-000079

Work Order: - BBMP / EE/ BTP/ W.O /176/2020-21, Dated: 27-01-2021

AS No: - AS/EE(BTP)/14/2020-21, Dated: 10.06.2021

TS No: - TS/ CE(YNK) /05/2020-21, Dated: 11.06.2021

Name of the Contractor: - Sri.Umesh N

BRUHATH BENGALURU MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION, BENGALURU

1st & Final Bill

Name of Work: - Improvements to roads and drains at Muneshwara Nagara, Near Doddamma devi temple, kattigenahalli village and Surrounding Area in Ward No.05

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DETAILED-MEASUREMENT SHEET

BRUHATH BANGALORE MAHANAGARAPALIKE

YELAHANKA ZONE

1ST AND FINAL BILL

Name of Work: Improvements to roads and drains at Muneshwara Nagara, Near Doddamma devi temple, kattigenahalli village and Surrounding Area in Ward No.05

Work Order No: BBMP / EE/ BTP/ W.O /176/2020-21 dt: 27-01-2021

JOB NUMBER: 005-20-000079

Estimate Cost: 88.00 Lakhs

As No: AS/EE(BTP)/14/2020-21 dt:10-06-2020

Ts No :TS/ CE(YNK) /05/2020-21 dt :11-06-2020

Name of Contractor : Sri. Umesh N

Item No	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification										
	Qty Taken from Pre measurement page Item No. 1, page No.1to2							**Cum**	**1137.70**	**197.22**	**224377.19**
2	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.										
	Qty Taken from Pre measurement page Item No. 2, Page No.2to4							**Cum**	**273.31**	**5233.86**	**1430455.81**
											1430466.28
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm										
	For RCC Drain										
	For Bottom Raft										
	Muneshwara Nagara										
	4th Cross Road From 1st Main Road to Dead End										
	RHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	16.70	1.00	0.15	0.15	0.15		2.51		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	7.20	0.95	0.15	0.15	0.15		1.03		
	LHS	1	30.00	1.00	0.15	0.20	0.18		5.25		
		1	20.00	0.95	0.15	0.15	0.15		2.85		
	1st Main Road From 4th cross to 1st cross										
	LHS	1	19.80	0.95	0.15	0.15	0.15		2.82		
		1	20.00	0.95	0.15	0.15	0.15		2.85		
		1	27.00	0.95	0.15	0.15	0.15		3.85		
	Cross road From 4th cross										
	RHS	1	18.60	0.95	0.15	0.15	0.15		2.65		
	Cross road-1 from 3rd Cross to Dead End										
	RHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	18.30	0.95	0.15	0.15	0.15		2.61		
		1	3.70	0.95	0.15	0.20	0.18		0.62		
		1	1.80	1.00	0.15	0.15	0.15		0.27		
	Cross road-2 from 3rd Cross to Dead End										
	LHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	2.00	0.95	0.15	0.15	0.15		0.29		
		1	18.40	1.00	0.15	0.15	0.15		2.76		
		1	24.80	0.95	0.15	0.15	0.15		3.53		
	RHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	2.00	0.95	0.15	0.15	0.15		0.29		
		1	9.00	0.95	0.15	0.20	0.18		1.50		

Executive Engineer
Byatarayanapura Division
Yelahanka Zone BBMP

75.78

Item No	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
		1	9.40	0.95	0.15	0.15	0.15		1.34		
		1	9.10	1.00	0.15	0.15	0.15		1.37		
		1	15.30	0.95	0.15	0.15	0.15		2.18		
	Doddamma Devi Temple Opposite Road										
	From Main Road to Dead End										
	LHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.20	0.18		4.99		
		1	13.80	0.95	0.15	0.15	0.15		1.97		
	Doddamma Devi Temple Main Road From Ashwathkatte										
	LHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	12.40	0.95	0.15	0.15	0.15		1.77		
	Cross Road-1 From 2nd B Cross										
	LHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	13.40	0.95	0.15	0.15	0.15		1.91		
	RHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.20	0.18		4.55		
		1	10.00	1.00	0.15	0.15	0.15		1.50		
	Cross Road-2 From 2nd B Cross										
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	8.00	0.95	0.15	0.15	0.15		1.14		
	For RCC Culvert										
	Culverts at 3rd cross road										
	Culvert-1	1	4.35	1.60	0.20	0.20	0.20		1.39		
	Culvert-2	1	4.90	1.60	0.20	0.20	0.20		1.57		
	Culvert-3	1	4.90	1.60	0.20	0.20	0.20		1.57		
	For RCC Wall										
	Muneshwara Nagara										
	4th Cross Road From 1st Main Road to Dead End										
	RHS	2	30.00	0.15	0.50	0.60	0.55		4.95		
		2	30.00	0.15	0.60	0.45	0.53		4.73		
		2	30.00	0.15	0.45	0.55	0.50		4.50		
		2	30.00	0.15	0.55	0.55	0.55		4.95		
		2	16.70	0.15	0.55	0.55	0.55		2.76		
		2	30.00	0.15	0.55	0.55	0.55		4.95		
		2	7.20	0.15	0.55	0.45	0.50		1.08		
	LHS	2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	20.00	0.15	0.60	0.50	0.55		3.30		
	1st Main Road From 4th cross to 1st cross										
	LHS	2	30.00	0.15	0.50	0.55	0.53		3.12		
		2	30.00	0.15	0.70	0.75	0.73		6.53		
		2	27.00	0.15	0.90	0.60	0.75		6.08		
	Cross road From 4th cross										
	RHS	2	18.60	0.15	0.55	0.60	0.58		3.21		
	Cross road-1 from 3rd Cross to Dead End										
	RHS	2	30.00	0.15	0.55	0.60	0.58		5.18		
		2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	18.30	0.15	0.60	0.60	0.60		3.29		
		2	3.70	0.15	0.60	0.50	0.55		0.61		
		2	1.80	0.15	0.50	0.50	0.50		0.27		
	Cross road-2 from 3rd Cross to Dead End										
	LHS	2	30.00	0.15	0.45	0.45	0.45		4.05		
		2	2.00	0.15	0.45	0.45	0.45		0.27		
		2	18.40	0.15	0.30	0.30	0.30		1.66		
		2	24.80	0.15	0.50	0.50	0.50		3.72		
	RHS	2	30.00	0.15	0.50	0.45	0.48		4.28		
		2	2.00	0.15	0.45	0.45	0.45		0.27		
		2	9.00	0.15	0.25	0.25	0.25		0.68		
		2	9.40	0.15	0.45	0.50	0.48		1.34		
		2	9.10	0.15	0.20	0.30	0.25		0.68		
		2	15.30	0.15	0.45	0.45	0.45		2.07		
									142.17		

Executive Engineer
Byatarayanapura Division
Yelahanka Zone BBMP

Item No	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
	Doddamma Devi Temple Opposite Road										
	From Main Road to Dead End										
	LHS	2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	30.00	0.15	0.60	0.45	0.53		4.73		
		2	13.80	0.15	0.45	0.50	0.48		1.97		
	Doddamma Devi Temple Main Road From Ashwathkatte										
	LHS	2	30.00	0.15	0.50	0.60	0.55		4.95		
		2	12.40	0.15	0.60	0.60	0.60		2.23		
	Cross Road-1 From 2nd B Cross										
	LHS	2	30.00	0.15	0.55	0.55	0.55		4.95		
		2	30.00	0.15	0.55	0.50	0.53		4.73		
		2	13.40	0.15	0.50	0.40	0.45		1.81		
	RHS	2	30.00	0.15	0.55	0.55	0.55		4.95		
		2	30.00	0.15	0.55	0.40	0.48		4.28		
		2	10.00	0.15	0.40	0.40	0.40		1.20		
	Cross Road-2 From 2nd B Cross										
	RHS	2	30.00	0.15	0.50	0.50	0.50		4.50		
		2	8.00	0.15	0.50	0.55	0.53		1.26		
	For RCC Culvert										
	Culverts at 3rd cross road										
	Culvert-1	2	4.35	0.30	0.45	0.45	0.45		1.17		
	Culvert-2	2	4.90	0.30	0.45	0.45	0.45		1.32		
	Culvert-3	2	4.90	0.30	0.45	0.45	0.45		1.32		
	Ramp For RCC Culvert										
	Culverts at 3rd cross road										
	Culvert-1	1	4.35	1.60	0.15	0.15	0.15		1.04		
		1	4.35	1.20	0.15	0.15	0.15		0.78		
	Culvert-2	1	4.90	2.00	0.15	0.20	0.18		1.72		
		1	4.90	1.80	0.15	0.15	0.15		1.32		
	Culvert-3	2	4.90	2.00	0.15	0.15	0.15		2.94	58.57	1888617.77
							Present Qty =	**Cum**	**276.52**	**6829.95**	**1888608.72**
4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications										
	Qty Taken from Pre measurement page Item No.4, Page No.4 to 6							**Tonne**	**18.19**	**68710.63**	**1250166.28**
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete.(Data Rate)										1249846.35
	Muneshwara Nagara										
	4th Cross Road From 1st Main Road to Dead End										
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	16.70	0.90					15.03		
		1	30.00	0.90					27.00		
		1	7.20	0.90					6.48		
	LHS	1	30.00	0.90					27.00		
		1	20.00	0.90					18.00		
	1st Main Road From 4th cross to 1st cross										
	LHS	1	19.80	0.90					17.82		
	Cross road From 4th cross										
	RHS	1	18.60	0.90					16.74		
	Cross road-1 from 3rd Cross to Dead End										
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	18.30	0.90					16.47		
		1	3.70	0.90					3.33		
		1	1.80	0.90					1.62		

311.49

Item No	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
	Cross road-2 from 3rd Cross to Dead End										
	LHS	1	30.00	0.90					27.00		
		1	2.00	0.90					1.80		
		1	18.40	0.90					16.56		
		1	24.80	0.90					22.32		
	RHS	1	30.00	0.90					27.00		
		1	2.00	0.90					1.80		
		1	9.00	0.90					8.10		
		1	9.40	0.90					8.46		
		1	9.10	0.90					8.19		
		1	15.30	0.90					13.77		
	Doddamma Devi Temple Opposite Road										
	From Main Road to Dead End										
	LHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	13.80	0.90					12.42		
	Doddamma Devi Temple Main Road From										
	LHS	1	30.00	0.90					27.00		
		1	12.40	0.90					11.16		
	Cross Road-1 From 2nd B Cross										
	LHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	13.40	0.90					12.06		
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	10.00	0.90					9.00		
	Cross Road-2 From 2nd B Cross										
		1	30.00	0.90					27.00		
		1	8.00	0.90					7.20		
	Deductions								402.84		
	4th Cross Road From 1st Main Road to Dead End										
	RHS	-11	0.90	0.60					-5.94		
		-20	0.90	0.60					-10.80		
	Cross road-1 from 3rd	-10	0.90	0.60					-5.40		
		-14	0.90	0.60					-7.56		
	Cross Road-1 From 2nd B Cross	-14	0.90	0.60					-7.56	37.26	
								Present Qty =	**677.07**		
								Limited to = Sqm	**666.00**	**2212.00**	**1473192**
6	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to IS9103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)										
	For RCC Culverts										
	Culverts at 3rd cross road										
	Culvert-1	1	4.35	1.50					6.53		
	Culvert-2	1	4.90	1.50					7.35		
	Culvert-3	1	4.90	1.50					7.35		
	Missing Slabs At 4th cross	1	1.20	0.60					0.72		
	At 1st Main Road	1	1.20	0.60					0.72		
								Present Qty = Sqm	**22.67**		
								Limited to= Sqm	**22.50**	**5147.10**	**115809.75**
7	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.										

Executive Engineer
Byatarayanapura Division
Yelahanka Zone BBMP

Item No	Description of Item	No	Length	B1	B2	Avg Breadth	Depth	Unit	Qty	Rate in Rs	Amount
	Qty Taken from Pre measurement page Item No.7, Page No.6 to 7							**Sqm**	**979.00**	**6.04**	**5913.16**
8	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) as per the directions of Engineer In-Charge										
	For CC Road										
	4th cross road from 1st main Road										
		1	15.00	5.70	5.00	5.35	0.15		12.04		
		1	15.00	5.00	5.05	5.03	0.15		11.31		
		1	15.00	5.05	5.25	5.15	0.15		11.59		
		1	15.00	5.25	4.80	5.03	0.15		11.31		
		1	15.00	4.80	4.55	4.68	0.15		10.52		
		1	15.00	4.55	4.45	4.50	0.15		10.13		
		1	15.00	4.45	4.40	4.43	0.15		9.96		
		1	12.30	4.40	4.10	4.25	0.15		7.84		
		1	13.40	7.05	6.70	6.88	0.10		9.21		
		1	6.30	8.10	8.00	8.05	0.10		5.07		
		1	15.00	7.35	7.45	7.40	0.15		16.65		
		1	15.00	7.45	7.10	7.28	0.15		16.37		
		1	15.00	7.10	6.75	6.93	0.15		15.58		
		1	6.20	6.75	5.85	6.30	0.10		3.91		
	Deductions										
	Transform	-1	1.00	1.50	1.50	1.50	0.15		-0.23		
	Trees Area	-3	0.30	0.30	0.30	0.30	0.15		-0.04		
		-6	0.20	0.20	0.20	0.20	0.15		-0.04		
		-1	0.60	0.90	0.90	0.90	0.15		-0.08	0.38	
								Present Qty =	**Cum**	151.09	
								Limited Qty =	**Cum**	146.85	5070.32	744576.492
										Sub Total		7133099.41
										GST Charges 12%		855971.93
										Grand Total		7989071.33

7132798.98
855935.87
7988734.85

Round off: 7988000.00

Executive Engineer
Byatarayanapura Division
Yelahanka Zone BBMP

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Bytarayanapura Sub-Division

BRUHATH BENGALURU MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION, BENGALURU

1st & Final Bill

Name of Work: - Improvements to roads and drains at Muneshwara Nagara, Near Doddamma devi temple, kattigenahalli village and Surrounding Area in Ward No.05

Estimated Cost:- 88.00 Lakhs

PRE-MEASUREMENT SHEET

Name of Work : Construction of RCC Drain & RCC Culverts, near OM Circle main roads and surrounding area at Kattigenahalli Village in Ward No.05

PRE MEASUREMENTS

Item No	Discription of Item	No	Length	B1	B2	Breadth (Avg)	Depth	Qty	Unit
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification								
	For RCC Drain								
	Muneshwara Nagara								
	4th Cross Road From 1st Main Road to Dead End								
	RHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	16.70	1.10	1.10	1.10	0.90	16.53	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	7.20	1.10	1.10	1.10	0.90	7.13	
	LHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	20.00	1.10	1.10	1.10	0.90	19.80	
	1st Main Road From 4th cross to 1st cross								
	LHS	1	19.80	1.10	1.10	1.10	0.95	20.69	
		1	30.00	1.10	1.10	1.10	0.95	31.35	
		1	27.00	1.10	1.10	1.10	0.95	28.22	
	Cross road From 4th cross								
	RHS	1	18.60	1.10	1.10	1.10	1.00	20.46	
	Cross road-1 from 3rd Cross to Dead End								
	RHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	18.30	1.10	1.10	1.10	0.90	18.12	
		1	3.70	1.10	1.10	1.10	0.90	3.66	
		1	1.80	1.10	1.10	1.10	0.80	1.58	
	Cross road-2 from 3rd Cross to Dead End								
	LHS	1	30.00	1.10	1.10	1.10	0.80	26.40	
		1	2.00	1.10	1.10	1.10	0.80	1.76	
		1	18.40	1.10	1.10	1.10	0.60	12.14	
		1	24.80	1.10	1.10	1.10	0.80	21.82	
	RHS	1	30.00	1.10	1.10	1.10	0.80	26.40	
		1	2.00	1.10	1.10	1.10	0.75	1.65	
		1	9.00	1.10	1.10	1.10	0.60	5.94	
		1	9.40	1.10	1.10	1.10	0.80	8.27	
		1	9.10	1.10	1.10	1.10	0.60	6.01	
		1	15.30	1.10	1.10	1.10	0.75	12.62	
	Doddamma Devi Temple Opposite Road								
	From Main Road to Dead End								
	LHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	13.80	1.10	1.10	1.10	0.80	12.14	
	Doddamma Devi Temple Main Road From Ashwathkatte								
	LHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	12.40	1.10	1.10	1.10	0.90	12.28	
	Cross Road-1 From 2nd B Cross								
	LHS	1	30.00	1.10	1.10	1.10	0.85	28.05	
		1	30.00	1.10	1.10	1.10	0.80	26.40	
		1	13.40	1.10	1.10	1.10	0.75	11.06	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

	RHS	1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	10.00	1.10	1.10	1.10	0.70	7.70	
	Cross Road-2 From 2nd B Cross								
		1	30.00	1.10	1.10	1.10	0.90	29.70	
		1	8.00	1.10	1.10	1.10	0.90	7.92	
	For RCC Culvert								
	Culverts at 3rd cross road								
	Culvert-1	1	4.35	2.00	2.00	2.00	0.90	7.83	
	Culvert-2	1	4.90	2.00	2.00	2.00	0.90	8.82	
	Culvert-3	1	4.90	2.00	2.00	2.00	0.90	8.82	
	For CC Road								
	4th cross road from 1st main Road								
		1	15.00	5.70	5.00	5.35	0.30	24.08	
		1	15.00	5.00	5.05	5.03	0.30	22.61	
		1	15.00	5.05	5.25	5.15	0.30	23.18	
		1	15.00	5.25	4.80	5.03	0.25	18.84	
		1	15.00	4.80	4.55	4.68	0.30	21.04	
		1	15.00	4.55	4.45	4.50	0.30	20.25	
		1	15.00	4.45	4.40	4.43	0.30	19.91	
		1	12.30	4.40	4.10	4.25	0.25	13.07	
		1	13.40	7.05	6.70	6.88	0.25	23.03	
		1	6.30	8.10	8.00	8.05	0.25	12.68	
		1	15.00	7.35	7.45	7.40	0.30	33.30	
		1	15.00	7.45	7.10	7.28	0.30	32.74	
		1	15.00	7.10	6.75	6.93	0.30	31.16	
		1	6.20	6.75	5.85	6.30	0.25	9.77	
	Deductions								
	Transform	-1	1.00	1.50	1.50	1.50	0.30	-0.45	
	Trees Area	-3	0.30	0.30	0.30	0.30	0.30	-0.08	
		-6	0.20	0.20	0.20	0.20	0.30	-0.07	
		-1	0.60	0.90	0.90	0.90	0.30	-0.16	
							Present Qty =	**1142.26**	**Cum**
							Limited to =	**1137.70**	**Cum**

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byrarayanapura Sub-Division

Item No	Discription of Item	No	Length	B1	B2	Breadth (Avg)	Depth	Qty	Unit
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	For RCC Drain								
	Muneshwara Nagara								
	4th Cross Road From 1st Main Road to Dead End								
	RHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	16.70	1.10	1.10	1.10	0.15	2.76	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	7.20	1.10	1.10	1.10	0.10	0.79	
	LHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	20.00	1.10	1.10	1.10	0.15	3.30	
	1st Main Road From 4th cross to 1st cross								

	LHS	1	19.80	1.10	1.10	1.10	0.15	3.27	
		1	30.00	1.10	1.10	1.10	0.10	3.30	
		1	27.00	1.10	1.10	1.10	0.15	4.46	
	Cross road From 4th cross								
	RHS	1	18.60	1.10	1.10	1.10	0.15	3.07	
	Cross road-1 from 3rd Cross to Dead End								
	RHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	18.30	1.10	1.10	1.10	0.10	2.01	
		1	3.70	1.10	1.10	1.10	0.10	0.41	
		1	1.80	1.10	1.10	1.10	0.10	0.20	
	Cross road-2 from 3rd Cross to Dead End								
	LHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	2.00	1.10	1.10	1.10	0.15	0.33	
		1	18.40	1.10	1.10	1.10	0.10	2.02	
		1	24.80	1.10	1.10	1.10	0.15	4.09	
	RHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	2.00	1.10	1.10	1.10	0.10	0.22	
		1	9.00	1.10	1.10	1.10	0.15	1.49	
		1	9.40	1.10	1.10	1.10	0.10	1.03	
		1	9.10	1.10	1.10	1.10	0.15	1.50	
		1	15.30	1.10	1.10	1.10	0.10	1.68	
	Doddamma Devi Temple Opposite Road								
	From Main Road to Dead End								
	LHS	1	30.00	1.10	1.10	1.10	0.10	3.30	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	13.80	1.10	1.10	1.10	0.15	2.28	
	Doddamma Devi Temple Main Road From Ashwathkatte								
	LHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	12.40	1.10	1.10	1.10	0.15	2.05	
	Cross Road-1 From 2nd B Cross								
	LHS	1	30.00	1.10	1.10	1.10	0.10	3.30	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	13.40	1.10	1.10	1.10	0.15	2.21	
	RHS	1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	10.00	1.10	1.10	1.10	0.15	1.65	
	Cross Road-2 From 2nd B Cross								
		1	30.00	1.10	1.10	1.10	0.15	4.95	
		1	8.00	1.10	1.10	1.10	0.10	0.88	
	For RCC Culvert								
	Culverts at 3rd cross road								
	Culvert-1	1	4.35	2.00	2.00	2.00	0.15	1.31	
	Culvert-2	1	4.90	2.00	2.00	2.00	0.15	1.47	
	Culvert-3	1	4.90	2.00	2.00	2.00	0.15	1.47	
	For CC Road								
	4th cross road from 1st main Road								
		1	15.00	5.70	5.00	5.35	0.15	12.04	
		1	15.00	5.00	5.05	5.03	0.15	11.31	
		1	15.00	5.05	5.25	5.15	0.10	7.73	
		1	15.00	5.25	4.80	5.03	0.15	11.31	
		1	15.00	4.80	4.55	4.68	0.15	10.52	
		1	15.00	4.55	4.45	4.50	0.10	6.75	
		1	15.00	4.45	4.40	4.43	0.15	9.96	
		1	12.30	4.40	4.10	4.25	0.15	7.84	
		1	13.40	7.05	6.70	6.88	0.10	9.21	185.14

ಸಹಾಯಕ ಅಧೀಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧೀಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

		1	6.30	8.10	8.00	8.05	0.10	5.07	
		1	15.00	7.35	7.45	7.40	0.15	16.65	
		1	15.00	7.45	7.10	7.28	0.10	10.91	
		1	15.00	7.10	6.75	6.93	0.15	15.58	
		1	6.20	6.75	5.85	6.30	0.10	3.91	
	Deductions								
	Transform	-1	1.00	1.50	1.50	1.50	0.15	-0.23	
	Trees Area	-3	0.30	0.30	0.30	0.30	0.15	-0.04	
		-6	0.20	0.20	0.20	0.20	0.15	-0.04	
		-1	0.60	0.90	0.90	0.90	0.15	-0.08	
							Present Qty =	**273.31**	**Cum**

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byatarayanapura Sub-Division

Item No	Description of Item	No	No of Bars	Cutting Length of Bar	Total Length of Bar in Mtr	Weight/ Mtr in Kgs		Total Wt in Kg's	Unit
4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as per specifications								
	For RCC Drain								
	4th Cross Road								
	RHS								
	Total length of drain =173.90								
	Main Bars 10mm dia@ 125mm c/c								
	0.62kg/mtr	1	1399	2.00	2798.00	0.62		1734.76	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	16	173.90	2782.40	0.62		1725.09	
	LHS								
	Total length of drain =50.00 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	410	2.10	861.00	0.62		533.82	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	17	50.00	850.00	0.62		527.00	
	1st Main Road From 4th cross								
	LHS								
	Total length of drain =19.80								
	Main Bars 10mm dia@ 125mm c/c								
	0.62kg/mtr	1	165	2.00	330.00	0.62		204.60	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	16	19.80	316.80	0.62		196.42	
	Total length of drain =30.00								
	Main Bars 10mm dia@ 125mm c/c								
	0.62kg/mtr	1	255	2.40	612.00	0.62		379.44	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	20	30.00	600.00	0.62		372.00	
	Total length of drain =27.00								

	Main Bars 10mm dia@ 125mm c/c							
	0.62kg/mtr	1	225	2.40	540.00	0.62		334.80
	Distrubution Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	20	27.00	540.00	0.62		334.80
	Cross road-1 from 3rd Cross							
	RHS							
	Total length of drain = 83.80 Mtr							
	Main Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	682	2.20	1500.40	0.62		930.25
	Distrubution Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	18	83.80	1508.40	0.62		935.21
	Cross road-2 from 3rd Cross							
	LHS							
	Total length of drain =75.20 Mtr							
	Main Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	578	2.00	1156.00	0.62		716.72
	Distrubution Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	18	75.20	1353.60	0.62		839.23
	RHS							
	Total length of drain =74.80 Mtr							
	Main Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	610	1.90	1159.00	0.62		718.58
	Distrubution Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	16	74.80	1196.80	0.62		742.02
	Doddamma Devi Temple Opposite Road							
	LHS							
	Total length of drain =73.80 Mtr							
	Main Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	610	2.00	1220.00	0.62		756.40
	Distrubution Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	16	73.80	1180.80	0.62		732.10
	Doddamma Devi Temple Main Road							
	LHS							
	Total length of drain =42.40 Mtr							
	Main Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	355	2.10	745.50	0.62		462.21
	Distrubution Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	17	42.40	720.80	0.62		446.90
	Cross Road-1 From 2nd B Cross							
	RHS							
	Total length of drain =70.00 Mtr							
	Main Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	578	2.00	1156.00	0.62		716.72
	Distrubution Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	16	70.00	1120.00	0.62		694.40
	LHS							
	Total length of drain =73.40 Mtr							
	Main Bars 10mm dia@125mm c/c							
	0.62kg/mtr	1	602	2.00	1204.00	0.62		746.48
	Distrubution Bars 10mm dia@125mm c/c							

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

	0.62kg/mtr	1	16	73.40	1174.40	0.62		728.13	
	Cross Road-2 From 2nd B Cross								
	RHS								
	Total length of drain =38.00 Mtr								
	Main Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	320	2.00	640.00	0.62		396.80	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	1	16	38.00	608.00	0.62		376.96	
	Double Mat								
	For RCC Culverts								
	Culverts at 3rd cross road								
	Total length of Culvert-1 =4.35 Mtr								
	Main Bars 12mm dia @ 125mm c/c								
	0.89kg/mtr	2	35	2.60	182.00	0.89		161.98	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	2	21	4.35	182.70	0.62		113.27	
	Total length of Culvert-2 =4.90 Mtr								
	Main Bars 12mm dia @ 125mm c/c								
	0.89kg/mtr	2	40	2.60	208.00	0.89		185.12	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	2	22	4.90	215.60	0.62		133.67	
	Total length of Culvert-3 =4.90 Mtr								
	Main Bars 12mm dia @ 125mm c/c								
	0.89kg/mtr	2	40	2.60	208.00	0.89		185.12	
	Distrubution Bars 10mm dia@125mm c/c								
	0.62kg/mtr	2	22	4.90	215.60	0.62		133.67	2116.73
								18194.66	**Kgs**
						Present Qty=		**18.19**	**Tonne**

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Bytarayanapura Sub-Division

Item No	Discription of Item	No	Length	B1	B2	Breadth (Avg)	Depth	Qty	Unit
7	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.								
	For CC Road								
	4th cross road from 1st main Road								
		1	15.00	5.70	5.00	5.35		80.25	
		1	15.00	5.00	5.05	5.03		75.38	
		1	15.00	5.05	5.25	5.15		77.25	
		1	15.00	5.25	4.80	5.03		75.38	
		1	15.00	4.80	4.55	4.68		70.13	
		1	15.00	4.55	4.45	4.50		67.50	
		1	15.00	4.45	4.40	4.43		66.38	
		1	12.30	4.40	4.10	4.25		52.28	
		1	13.40	7.05	6.70	6.88		92.13	
		1	6.30	8.10	8.00	8.05		50.72	
		1	15.00	7.35	7.45	7.40		111.00	
		1	15.00	7.45	7.10	7.28		109.13	
		1	15.00	7.10	6.75	6.93		103.88	
		1	6.20	6.75	5.85	6.30		39.06	1078.43

Executive Engineer
Byatarayanapura Division
Yelahanka Zone BBMP

	Deductions								
	Transform	-1	1.00	1.50	1.50	1.50		-1.50	
	Trees Area	-3	0.30	0.30	0.30	0.30		-0.27	
		-6	0.20	0.20	0.20	0.20		-0.24	
		-1	0.60	0.90	0.90	0.90		-0.54	2.55
							Present Qty=	**1067.88**	**Sqm**
							Qty Limited to	**979.00**	**Sqm**

10/2/24

Assistant Engineer
Ward No.05

10/2/24

Assistant Executive Engineer
Byatarayanapura Sub-Division